
**BIOLOGY 30S
AND BIOLOGY 40S
LEARNING RESOURCES**

*Annotated Bibliography:
A Reference for Selecting Learning Resources
(March 2005)*

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INTRODUCTION

References for Selecting Learning Resources

Biology 30S and Biology 40S Learning Resources: Annotated Bibliography: A Reference for Selecting Learning Resources is a reference tool provided by Manitoba Education, Citizenship and Youth to help educators select student and teacher learning resources that support Senior 3 and Senior 4 Biology programming. This compilation is intended to be used as a reference for selecting learning resources, along with the *Manitoba Text Book Bureau Catalogue of Learning Resources*, which provides ordering information and prices. The learning resources can also be purchased by visiting the online version of The Manitoba Text Book Bureau (MTBB) catalogue at <http://www.mtbb.mb.ca>.

Most of the learning resources are also available to Manitoba educators from the Instructional Resources Unit (IRU) library, whose online catalogue is available at <http://libcat.merlin.mb.ca>.

Organization

Multi-component resources have an overall annotation (describing the components and organization of the resource), followed by descriptions of the individual components. The title of each multi-component resource appears in **blue type**.

A **sample resource description** appears on page 8.

The **Distributor Directory** at the end of the bibliography provides an alphabetical listing of distributors, including their addresses.

Learning Resources Reviews

The learning resources listed in *Biology 30S and Biology 40S Learning Resources: Annotated Bibliography: A Reference for Selecting Learning Resources* were reviewed for the purpose of identifying materials that support Manitoba's Biology curriculum. Educators from across Manitoba participated in the reviews. All review participants were selected by Manitoba Education, Citizenship and Youth from superintendent nominations.

In November 2004 and February 2005, teams of teacher-evaluators from Manitoba schools examined Biology 30S and Biology 40S learning resources submitted by publishers, producers, and distributors in response to a call for resources, and made recommendations regarding the suitability of the resources using a collaborative review process.

Resource Selection Criteria

The selection of learning resources was based on the fidelity with the rationale, philosophy, processes, and learning outcomes identified in *Senior 3 and Senior 4 Biology 30S and 40S: Manitoba Curriculum Framework of Outcomes (Draft)*.

The learning resources in this annotated bibliography were selected according to the following criteria:

- **Curriculum Fit/Content/Philosophy:** Evaluators determined the suitability of each learning resource by considering the degree to which the content and processes of the resource align with the curricula, thus providing support for teacher implementation. They also considered grade-appropriateness.
- **Instructional Design:** Evaluators determined the appropriateness of the resource in terms of instructional design, determining the degree to which the resource states instructional goals and learner outcomes, and addresses a variety of learning and teaching styles.
- **Social Considerations:** Evaluators determined the appropriateness of the resource in terms of social concerns. They considered the degree to which the resource is free of bias and stereotyping, includes Canadian content, and utilizes culturally diverse examples.
- **Technical Design:** Evaluators determined the appropriateness of the resource in terms of technical design, considering the degree to which the resource is visually interesting, appealing, and has a logical and consistent form.

When using this annotated bibliography to select learning and teaching resources, teachers should consider how the resources meet the learning requirements of students and the perspectives of their own student population.

Information on a specific learning resource may be obtained from the descriptive information in this annotated bibliography, as well as from the supplier, published reviews, colleagues, and an examination of the resource.

Terms and Definitions

The following terms and definitions are used in this annotated bibliography to describe the learning resources:

- **Breadth:** identifies student learning resources that address a wide range of topics (with the highest possible level of fidelity with the curriculum framework) for a particular grade
- **Depth:** identifies student learning resources (with the highest possible level of fidelity with the curriculum framework) that provide especially effective learning experiences for a particular grouping of student learning outcomes
- **Breadth and Depth:** identifies comprehensive learning resources that provide both breadth and depth dimensions for a particular grouping of student learning outcomes

- **Teacher Professional Reference:** contains theory and/or practice and/or history and/or classroom strategies to assist teachers in teaching
- **Teacher Reference:** stand-alone resource—the intended audience is teachers.
- **Student Reference:** stand-alone resource—the intended audience is students.
- **Multi-component Resource:** multi-component and/or multi-grade resources which may or may not include a teacher resource. The titles are listed in blue type.

Resource Description: Definitions

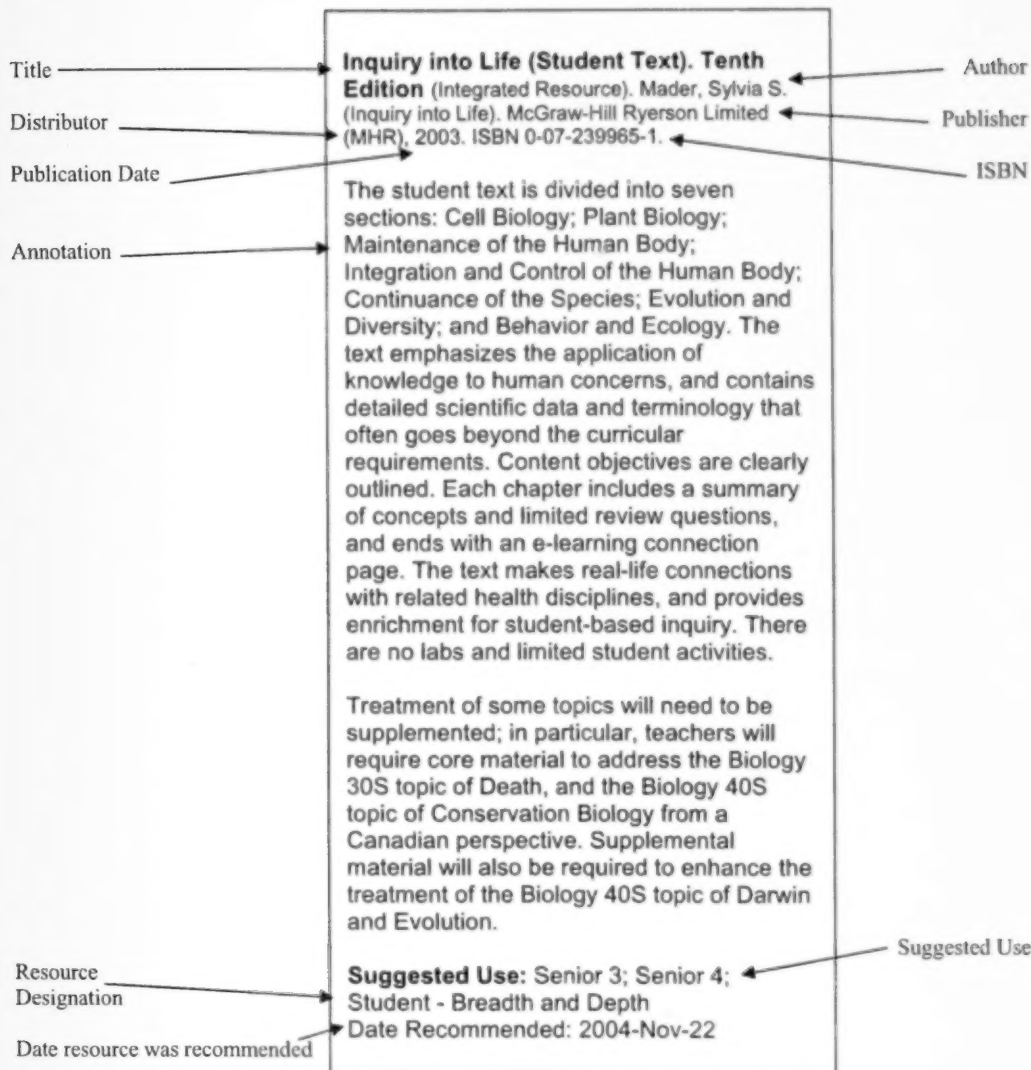
The following information is provided for each learning and teaching resource (as applicable):

- **Annotation:** provides an overall description of the resource. Brief annotations of individual components and/or groups of components are also provided.
- **Author(s):** refers to the author(s), editor(s), or director(s) of the resource. When a resource has more than two authors/editors, only the first name is cited, followed by “et al.”
- **Collation:** specifies the number of pages of the resource
- **Distributor:** is in parentheses following the publisher or producer. The full addresses, fax numbers, and telephone numbers of these companies are given in the Distributor Directory.
- **Media Designation:** refers to resource categories, such as print, software, or video.
- **Suggested Use:** indicates the grade(s) and GLO(s)/strand(s)/topic(s) for which the resource is most suitable and identifies the resource designation. *Resource designation* refers to classifications such as the following:
 - student breadth, depth, or breadth and depth
 - teacher professional reference
 - teacher reference

The resource designation for a multi-component resource applies to the resource as a whole. Please note, for example, that a multi-component resource may be designated as student depth and breadth and as teacher reference. This indicates that the audience for the resource is students, but the resource also includes teacher support material.

- **System Requirements:** specifies the system requirements needed to operate the software resource successfully. Abbreviations used: MB—megabyte; RAM—random-access memory.
- **Title:** refers to the name of the resource. All titles are listed by production skills and in alphabetical order.

Resource Description: Sample Page



Note: Definitions of resource descriptions appear on page 7.

Titles and Descriptions

Biology 30S/40S

Biology: The Dynamics of Life. Sixth Edition

(Integrated Resource). Biggs, Alton, et al. (Biology: The Dynamics of Life). Glencoe (MHR), 2004.

This integrated resource consists of a student textbook, a teacher wraparound edition, an extensive teacher classroom resource package, and a virtual lab multimedia CD-ROM. The physical layout and diagrams are visually appealing and engaging. The series addresses eight out of eleven Senior 3 and Senior 4 Biology units. Teachers will require core material to address the Biology 30S topic of Aging and Death. Supplemental material will also be required to enhance the treatment of the Biology 40S topic of Conservation Biology, as well as the overall theme of Homeostasis and Wellness.

Comment: This resource is a US publication and has no Canadian context or references.

Date Recommended: 2005-Feb-22

Biology: The Dynamics of Life (Student Text). Sixth Edition

(Integrated Resource). Biggs, Alton, et al. (Biology: The Dynamics of Life). Glencoe (MHR), 2004. 1190 p. ISBN 0-07-829900-4.

The student text is divided into ten units: What Is Biology?; Ecology; The Life of a Cell; Genetics; Change in Time; Viruses *et al*; Plants; Invertebrates; Vertebrates; and The Human Body. It is organized with clear student objectives, vocabulary lists, section and chapter assessments, mini-labs, problem-solving labs, a Biology and Society application activity, and cross-curricular connections.

The student text includes a glossary skill handbook and a reference handbook index. It addresses eight out of eleven Senior 3 and Senior 4 Biology topics. Teachers will require core material to address the Biology 30S topic of Aging

and Death. Supplemental material will also be required to enhance the treatment of the Biology 40S topic of Conservation Biology, as well as the overall theme of Homeostasis and Wellness.

Comment: This resource does not present the Biology 30S and Biology 40S units in the order presented in the curriculum.

Suggested Use: Senior 3; Senior 4; Student - Breadth and Depth

Date Recommended: 2005-Feb-22

Biology: The Dynamics of Life Teacher

Classroom Resources. Sixth Edition (Integrated Resource). (Biology: The Dynamics of Life). Glencoe (MHR), 2004. 1190 p. ISBN 0-07-829901-2.

This box of resources is split into five sections:

- The Assessment/Intervention section contains the following booklets: *Performance Assessment in the Science Classroom*; and *Reading Essentials for Biology: An Interactive Student Textbook*
- The Hands-On Learning section contains the following booklets: *BioChallenges and Enrichment*; *Reading and Writing in the Science Classroom*; and *Biology: The Dynamics of Life: Teacher Edition Laboratory Manual*
- The Meeting Individual Needs section contains the following booklets: *Probeware for Biology Lab Manual: Teacher Edition*; *Biology: The Dynamics of Life: Reviewing Biology*; *Science Inquiry Lab Manual: Teacher Edition*; and *Forensics and Biotechnology Lab Manual: Teacher Edition*
- The Glencoe Professional Series section contains the following booklets: *Unit 1 Resources: What Is Biology?*; *Unit 2 Resources: Ecology*; *Unit 3 Resources: The Life of a Cell*; *Unit 4 Resources: Genetics*; *Unit 5 Resources: Change through Time*; *Unit 6 Resources: Viruses, Bacteria, Protists, and Fungi*; *Unit 7 Resources: Plants*; *Unit 8 Resources: Invertebrates*; *Unit 9 Resources: Vertebrates*; and *Unit 10 Resources: The Human Body*
- The Teaching Tools section contains the following booklets: *ELL Strategies for Science*; *Guide to Using the Internet in the Science*

Classroom; Home and Community Involvement in the Science Classroom; and Laboratory Management and Safety in the Science Classroom

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2005-Feb-22

Biology: The Dynamics of Life Teacher Wraparound Edition. Sixth Edition (Integrated Resource). Biggs, Alton, et al. (Biology: The Dynamics of Life). Glencoe (MHR), 2004. 1190 p. ISBN 0-07-829899-7.

The teacher wraparound edition is a replica of the student text and includes ideas for teaching, answers to questions, demonstrations, technology connections, suggestions for assessment, and complementary student activities, all of which are wrapped around the student text pages.

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2005-Feb-22

Biology: The Dynamics of Life Virtual Labs Multimedia CD-ROM. Sixth Edition (Integrated Resource). (Biology: The Dynamics of Life). Glencoe (MHR), 2004. ISBN 0-07-860452-4.

This CD-ROM allows students to complete laboratory experiments that are too dangerous, too expensive, or that take too long to complete in a laboratory session. A variety of conditions for each lab are provided, which allows for multiple trials.

System Requirements:

Windows

- IBM compatible Pentium/90 MHz
- Windows 95, 98, or 2000, or Windows NT Workstation 4 with Service Pack 6A
- 16 MB RAM
- 10 MB free hard drive space
- 4x CD-ROM drive
- QuickTime 2.1.1 (included on CD-ROM)
- SVGA monitor
- 640 x 480, displaying 256 colors
- Speakers

- Mouse
- Printer recommended

Macintosh:

- Power Macintosh System 7.5.3 or later
- 16 MB RAM
- 10 MB free hard drive space
- 4x CD-ROM drive
- QuickTime 3.0 (included on CD-ROM) or later
- 13-inch/8-bit colour monitor using full-screen resolution
- Mouse
- Printer recommended

Suggested Use: Senior 3; Senior 4; Student - Breadth and Depth
Date Recommended: 2005-Feb-22

Inquiry into Life. Tenth Edition (Integrated Resource). (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR).

This integrated resource consists of a student text, a "digital content manager" CD-ROM, a test bank CD-ROM, two boxes of slides, a binder of transparencies, a laboratory manual (recommended as a teacher resource), and an Internet-based online learning centre. The resource features case studies and integrates bioethic themes throughout. Treatment of some topics will need to be supplemented; in particular, teachers will require core material to address the Biology 30S topic of Death, and the Biology 40S topic of Conservation Biology from a Canadian perspective. Supplemental material will also be required to enhance the treatment of the Biology 40S topic of Darwin and Evolution.

The online learning centre contains resources for students—interactive virtual labs, animations, labeling exercises, online tutoring, quizzes, and other activities; as well as resources for teachers—an instructor's manual, lab resource guide, bio labs, a course integration guide, and other activities. There are links to up-to-date news articles and current issues.

Note: The password required to access the online learning centre website is available with the purchase of a class set of texts (no minimum

class size quantity is required). Due to the dynamic nature of the website, the student resources should be reviewed before the website is used.

Comment: This resource is a US publication and has no Canadian context or references.

Date Recommended: 2004-Nov-22

Inquiry into Life (Student Text). Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. ISBN 0-07-239965-1.

The student text is divided into seven sections: Cell Biology; Plant Biology; Maintenance of the Human Body; Integration and Control of the Human Body; Continuance of the Species; Evolution and Diversity; and Behavior and Ecology. The text emphasizes the application of knowledge to human concerns, and contains detailed scientific data and terminology that often goes beyond the curricular requirements. Content objectives are clearly outlined. Each chapter includes a summary of concepts and limited review questions, and ends with an e-learning connection page. The text makes real-life connections with related health disciplines, and provides enrichment for student-based inquiry. There are no labs and limited student activities.

Treatment of some topics will need to be supplemented; in particular, teachers will require core material to address the Biology 30S topic of Death, and the Biology 40S topic of Conservation Biology from a Canadian perspective. Supplemental material will also be required to enhance the treatment of the Biology 40S topic of Darwin and Evolution.

Suggested Use: Senior 3; Senior 4; Student - Breadth and Depth
Date Recommended: 2004-Nov-22

Inquiry into Life Digital Content Manager. Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. ISBN 0-07-239974-0.

The CD-ROM contains PowerPoint lectures and

60 pieces of active art and photos from the student text, as well as labelled and unlabelled tables and diagrams that can be printed in colour or black and white.

System Requirements:

Windows

- Adobe Acrobat Reader 4.0 or higher
- Windows NT, 2000, ME, XP
- Pentium 233 MHz or better
- 128 MB RAM
- 800 x 600 x 16 bit colour, 32 bit preferred
- Sound card and speakers
- 8x CD-ROM drive
- Mouse

Macintosh

- Adobe Acrobat Reader 4.0 or higher
- Poser Max OS X (Classic 9) or above
- 200 MHz or faster recommended
- 128 MB RAM
- 800 x 600 x 16 bit colour, 32 bit preferred
- 8x CD-ROM drive
- Mouse

Suggested Use: Senior 3; Senior 4; Student - Breadth and Depth
Date Recommended: 2004-Nov-22

Inquiry into Life Laboratory Manual. Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. 502 p. ISBN 0-07-243736-7.

This laboratory manual is recommended as a supplemental teacher resource. It provides 32 student labs with text chapter references, colour photos and diagrams, and student questions. Appendices include instructions for preparing a lab report, a metric system chart, classification organisms, and examination answer sheets. The pages are detachable.

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2004-Nov-22

Inquiry into Life: Brownstone Diploma 6 for Windows and Exam 6 for Macintosh to accompany Inquiry into Life. Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. plus User's Guide. ISBN 0-07-239976-7.

This CD-ROM contains a test and exam bank with a grade book program, as well as teaching information. Teachers can customize tests in various formats: short answer, long answer, multiple choice, fill-in-the-blank, and true or false.

System Requirements:

Windows

- IBM PC or 100% compatible with a Pentium/90 MHz processor
- 16 MB RAM
- 4x CD-ROM
- Microsoft Windows 95 or higher

Macintosh

- OS system 7.6.1 or higher
- PowerPC 601 processor or higher
- 16 MB RAM
- double speed CD-ROM drive

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2004-Nov-22

Inquiry into Life: Mader Micrograph Slides. Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. 100 slides. ISBN 0-07-239977-5.

This box of slides contains 100 colour slides, as well as a list of the slide contents. The slides illustrate concepts from the student text.

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2004-Nov-22

Inquiry into Life: Transparencies to accompany Inquiry into Life. Tenth Edition (Integrated Resource). Mader, Sylvia S. (Inquiry into Life). McGraw-Hill Ryerson Limited (MHR), 2003. ISBN 0-07-239979-1.

This binder contains 706 colour transparencies that illustrate concepts from the student text.

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2004-Nov-22

McGraw-Hill Ryerson Biology. First Edition (Integrated Resource). (McGraw-Hill Ryerson Biology). McGraw-Hill Ryerson Limited (MHR), 2003.

This integrated resource consists of a student textbook, and a teacher resource manual and CD-ROM containing blackline masters, investigations, and assessment checklists. It addresses nine of the eleven Senior 3 and Senior 4 Biology units. Treatment of some topics will need to be supplemented; in particular teachers will require core material to address the Biology 30S topics of Blood Groups and Aging and Death, as well as the Biology 40S topic of Conservation Biology.

Comment: This resource is a Canadian publication using specific examples of Canadiana, e.g., Banting and Best.

Date Recommended: 2004-Nov-22

McGraw-Hill Ryerson Biology (Student Text). First Edition (Integrated Resource). Bullard, Jean. (McGraw-Hill Ryerson Biology). McGraw-Hill Ryerson Limited (MHR), 2003. 811 p. ISBN 0-07-091676-4.

The student text is divided into seven units: Matter and Energy for Life; Biodiversity; Interactions among Living Things; Homeostasis; Reproduction and Development; Genetic Continuity; and Evolution. The colour-coded appendices address Safety in the Laboratory; Units of Measurement; Scientific Notations; Significant Digits; How to Make Biological Drawings; the Dissection of the Fetal Pig; Understanding pH; Electronegativity; Shapes of Macromolecules; and the Periodic Table. The text is well-organized and clearly identifies student objectives. It includes section reviews, chapter reviews (which include a variety of short answer and critical thinking questions), and numerous examples of STSE connections to societal issues relating to biology. Disorders, illnesses, and diseases are well-covered. Mini-

labs and full labs are supplemented on the teacher resource CD-ROM. The text addresses nine of the eleven Senior 3 and Senior 4 Biology topics.

Treatment of some topics will need to be supplemented; in particular teachers will require core material to address the Biology 30S topics of Blood Groups and Aging and Death, as well as the Biology 40S topic of Conservation Biology.

Suggested Use: Senior 3; Senior 4; Student - Breadth and Depth
Date Recommended: 2004-Nov-22

McGraw-Hill Ryerson Biology Teacher's Resource (with Teacher's Resource CD-ROM).

First Edition (Integrated Resource). Blake, Leesa. (McGraw-Hill Ryerson Biology). McGraw-Hill Ryerson Limited (MHR), 2003. 258 p. ISBN 0-07-091677-2.

The teacher's resource manual provides background materials, activity preparation information, teaching strategies, chapter reviews, and answer keys to student assignments. It addresses possible student misconceptions. The CD-ROM reproduces the print student text. All files are in Word, PDF, and WordPerfect. The CD-ROM features blackline masters, additional investigations, assessment checklists, and supplemental labs/activities. It does not include test materials.

System Requirements:

Windows

- 486 +
- Windows 95/98/NT
- Word 97
- 16 MB RAM
- Adobe Acrobat Reader 4.0

Macintosh

- Power PC, System 7.5 +
- Word 98
- 16 MB RAM
- Adobe Acrobat Reader 4.0

Suggested Use: Senior 3; Senior 4; Teacher Reference
Date Recommended: 2004-Nov-22

Alphabetical Title Listing of Suggested Uses by Audience

Please note that the titles in this list are truncated.
The complete titles appear in the citations for
each resource.

Senior 3

Biology: The Dynamics of Life (Student Text)
Biology: The Dynamics of Life Teacher Classroom
Resources
Biology: The Dynamics of Life Teacher
Wraparound Edition
Biology: The Dynamics of Life Virtual Labs
Multimedia CD-ROM
Inquiry into Life (Student Text)
Inquiry into Life Digital Content Manager
Inquiry into Life Laboratory Manual
Inquiry into Life: Brownstone Diploma 6 for
Windows and Exam 6 for Macintosh to
accompany Inquiry into Life
Inquiry into Life: Mader Micrograph Slides
Inquiry into Life: Online Learning Center
Inquiry into Life: Transparencies to accompany
Inquiry into Life
McGraw-Hill Ryerson Biology (Student Text)
McGraw-Hill Ryerson Biology Teacher's Resource
(with Teacher's Resource CD-ROM)

Senior 4

Biology: The Dynamics of Life (Student Text)
Biology: The Dynamics of Life Teacher Classroom
Resources
Biology: The Dynamics of Life Teacher
Wraparound Edition
Biology: The Dynamics of Life Virtual Labs
Multimedia CD-ROM
Inquiry into Life (Student Text)
Inquiry into Life Digital Content Manager
Inquiry into Life Laboratory Manual
Inquiry into Life: Brownstone Diploma 6 for
Windows and Exam 6 for Macintosh to
accompany Inquiry into Life
Inquiry into Life: Mader Micrograph Slides
Inquiry into Life: Online Learning Center
Inquiry into Life: Transparencies to accompany

Inquiry into Life
McGraw-Hill Ryerson Biology (Student Text)
McGraw-Hill Ryerson Biology Teacher's Resource
(with Teacher's Resource CD-ROM)

Student - Breadth and Depth

Biology: The Dynamics of Life (Student Text)
Biology: The Dynamics of Life Virtual Labs
Multimedia CD-ROM
Inquiry into Life (Student Text)
Inquiry into Life Digital Content Manager
Inquiry into Life: Online Learning Center
McGraw-Hill Ryerson Biology (Student Text)

Teacher Reference

Biology: The Dynamics of Life Teacher Classroom
Resources
Biology: The Dynamics of Life Teacher
Wraparound Edition
Inquiry into Life Laboratory Manual
Inquiry into Life: Brownstone Diploma 6 for
Windows and Exam 6 for Macintosh to
accompany Inquiry into Life
Inquiry into Life: Mader Micrograph Slides
Inquiry into Life: Online Learning Center
Inquiry into Life: Transparencies to accompany
Inquiry into Life
McGraw-Hill Ryerson Biology Teacher's Resource
(with Teacher's Resource CD-ROM)

Alphabetical Title Listing by Media Type

Please note that the titles in this list are truncated.
The complete titles appear in the citations for
each resource.

Integrated Resource

Biology: The Dynamics of Life
Biology: The Dynamics of Life (Student Text)
Biology: The Dynamics of Life Teacher Classroom
Resources
Biology: The Dynamics of Life Teacher
Wraparound Edition
Biology: The Dynamics of Life Virtual Labs
Multimedia CD-ROM
Inquiry into Life
Inquiry into Life (Student Text)
Inquiry into Life Digital Content Manager
Inquiry into Life Laboratory Manual
Inquiry into Life: Brownstone Diploma 6 for
Windows and Exam 6 for Macintosh to
accompany Inquiry into Life
Inquiry into Life: Mader Micrograph Slides
Inquiry into Life: Online Learning Center
Inquiry into Life: Transparencies to accompany
Inquiry into Life
McGraw-Hill Ryerson Biology
McGraw-Hill Ryerson Biology (Student Text)
McGraw-Hill Ryerson Biology Teacher's Resource
(with Teacher's Resource CD-ROM)

Distributor Directory

Note all resources in this bibliography can also be purchased through the Manitoba Text Book Bureau (see listing below).

MHR McGraw-Hill Ryerson Limited
300 Water St
WHITBY ON L1N 9B6
(800) 565-5758
Fax: (800) 463-5885
Email: cs_inquiries@mcgrawhill.ca
Website: www.mcgrawhill.ca

MTBB Manitoba Text Book Bureau
130, 1st Avenue West, Box 910
SOURIS MB R0K 2C0
(866) 771-6822
(204) 483-5040
Fax: (204) 483-5041
Email: mtbb@merlin.mb.ca
Website: www.mtbb.mb.ca